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|           |           |           |           |           |           |           |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| $S_{1,1}$ | $S_{1,2}$ | $S_{1,3}$ | $S_{1,4}$ | $S_{1,5}$ | $S_{1,6}$ | $S_{1,7}$ |
| $S_{2,1}$ | $S_{2,2}$ | $S_{2,3}$ | $S_{2,4}$ | $S_{2,5}$ | $S_{2,6}$ | $S_{2,7}$ |
| $S_{3,1}$ | $S_{3,2}$ | $S_{3,3}$ | $S_{3,4}$ | $S_{3,5}$ | $S_{3,6}$ | $S_{3,7}$ |
| $S_{4,1}$ | $S_{4,2}$ | $S_{4,3}$ | $S_{4,4}$ | $S_{4,5}$ | $S_{4,6}$ | $S_{4,7}$ |
| $S_{5,1}$ | $S_{5,2}$ | $S_{5,3}$ | $S_{5,4}$ | $S_{5,5}$ | $S_{5,6}$ | $S_{5,7}$ |
| $S_{6,1}$ | $S_{6,2}$ | $S_{6,3}$ | $S_{6,4}$ | $S_{6,5}$ | $S_{6,6}$ | $S_{6,7}$ |
| $S_{7,1}$ | $S_{7,2}$ | $S_{7,3}$ | $S_{7,4}$ | $S_{7,5}$ | $S_{7,6}$ | $S_{7,7}$ |
| $S_{8,1}$ | $S_{8,2}$ | $S_{8,3}$ | $S_{8,4}$ | $S_{8,5}$ | $S_{8,6}$ | $S_{8,7}$ |

FIG. 2 - DEVICE KEY MATRIX

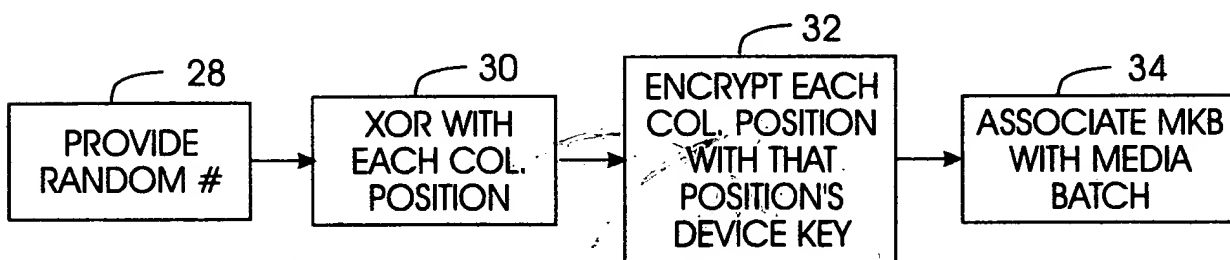


FIG. 3 - ENCRYPTION

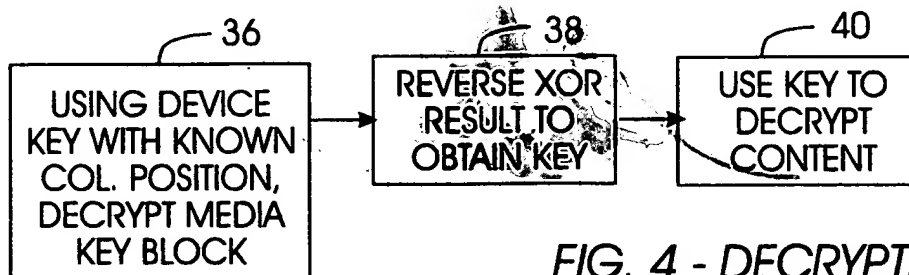


FIG. 4 - DECRYPTION